

Work Order ID 64722

Tuesday, December 14, 2010 1:16:22 PM



Page 1

Item ID: D412-702-121B

Accept



Setup Start



Revision ID:

Stop



Item Name: Harness Assembly

Start Date: 12/14/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 12/22/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: *PL*

Date: *10-12-14*

Tooling:

Date:

Run Start



QC:

Date:

SPC (Y/N):

Date:

Stop



Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr

Revision Nbr

DSI 9469

A

50

0.00



DC

Memo

0.00

Document Control

Photocopy bluefile & type labels per PPP D412-702-121B / DSI 9469
CHG001

NA 9/2

100

Pick Kit

0.00



Packaging

Memo

0.00

Packaging

EP 10/12/16 ①

110

0.00



Small Fab

Memo

0.00

Small Fab

Assemble as per DSI9469

EP 10/12/16 ①

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Page 2

Item ID: D412-702-121B

Accept



Setup Start



Revision ID:

Stop



Item Name: Harness Assembly

Start Date: 12/14/2010 Start Qty: 1.00



Cust Item ID:

Required Date: 12/22/2010 Req'd Qty: 1.00



Customer:

Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____

Run Start



QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop

Sequence ID/
Work Center IDOperation
DescriptionSet Up/
Run Hours

Tool ID

Tool #

Plan
CodeAccept
QtyReject
QtyReject
NumberInsp.
Stamp

120

QC5- Inspect part completeness to step on W/O

0.00



QC

Memo

0.00

Quality Control

8/10/12/16

70

130

0.00



Packaging

Memo

0.00

Packaging

Identify and pack for shipping as per PPP D412-702-123B / DSI 9469

Location: 214

PPP rev: _____

10/12/16 sp

140

QC21- Final Inspection - Work Order Release

0.00



QC

Memo

0.00

Quality Control

10/12/16
MF
10-12-16

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Picklist Print

Tuesday, December 14, 2010 1:16:27 PM

Page 1

Work Order ID: 64722

Parent Item: D412-702-121B

Parent Item Name: Harness Assembly

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

Comments:

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
---------------------------------	------------------------	---------------	-------------	---------------------	------------------	-----------------	--------------------	----------------	-------------	--------------	---------------	----------------	--------

D3570-3 Manufactured No



Bracket

Each 25.0000 1



12/12/16

Location

Loc Qty

Loc Code

GA

17

64361

17

ST245A

8

52885

2

58461

6

D3579-047 Manufactured No



Shoulder Harness

Each 4.0000 1



12/12/16

Location

Loc Qty

Loc Code

ST272

4

59041

4

MS24694-S50 Purchased No



Screw

Each 147.0000 4



12/12/16

Location

Loc Qty

Loc Code

ST289

147

115016

47

116304

100

AN960JD10L NAS1149D0332J Purchased No



Washer

Each 0.0000 4



12/12/16

40114884 (42)

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Picklist Print

Tuesday, December 14, 2010 1:16:27 PM

Page 2

Work Order ID: 64722

Parent Item: D412-702-121B

Parent Item Name: Harness Assembly

Start Date: 12/14/2010

Required Date: 12/22/2010

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

Each

2,030.000

1

1



Nut



EB 10/12/16

Location

Loc Qty

Loc Code

ST300

2030

114784

34

115835

996

116373

100

116391

900

4

D3569-3

Manufactured

No

Each

24.0000

1

1



Decal



Location

Loc Qty

Loc Code

ST245A

24

56385

2

59891

2

64281

20

N A. MK 10-12-16

Tuesday, December 14, 2010 1:16:27 PM

Shop Packet Print

Page 2

W/O:		WORK ORDER CHANGES					
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DART SERVICE INSTRUCTION

**TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3**

REF TCCA STC: SH04-7
REF FAA STC: SR01997NY
REF EASA STC: EASA.IM.R.S.00710

SHOW COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 64722
28024

PURPOSE:

Update the D412-702-041A/045A/-041B/-045B kits for compatibility with the Dart D412-769-011 Air Facing Seat Kit.

CHANGE:

Quantity (1) each of D412-702-111A/-113A is replaced with D412-702-121A/-123A. Also Qty (4) x AN4-27A bolts are added to the kits for compatibility with the Dart seat. When installing the AN4 bolts in the Dart seat, open the Ø0.188" holes to Ø0.257" (see sheet 4 detail J of this service instruction for reference). Alternate nuts added (see flag note 2 & 3, sheet 4). The parts list in section 25.28 (pg. 87) of ICA-D412-702 Rev. 3 and section 7.0 (pg. 38) of IIN-D412-702 Rev. E is amended as follows:

QTY	QTY	QTY	QTY	QTY	PART NUMBER	DESCRIPTION
-041A	-043A	-045A	-047A	-049A		
X					D412-702-041A	Dart 13-Man 3-Point Shoulder Harness Kit
		X			D412-702-045A	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit

IS:

1		1			D412-702-111A	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-121A	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-3	BRACKET
1*		1*			D3579-043	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-1	DECAL
1		1			D412-702-113A	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-123A	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-4	BRACKET
1*		1*			D3579-044	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-2	DECAL
4		4			AN4-27A	BOLT (NEW)

WAS:

2		2			D412-702-111A	HARNESS ASSEMBLY
2		2			D412-702-113A	HARNESS ASSEMBLY

* DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.01.13
CERT. NO.: SH04-7
ISSUE NO.: 3

C	UPDATE MS51865-6C ACORN NUT QUANTITY	JPH	10.01.13
B	ADD FLAG NOTE 2 & 3 AND OPEN AN3 HOLES TO AN4	CP	09.12.10
A	NEW ISSUE, NCR 09-068	CP	09.06.30
REV.	DESCRIPTION	BY	DATE
DESIGN		DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
DRAWN			
CHECKED		DRAWING NO.	REV. C
MFG. APPR.	N/A	DSI 9469	SHEET 1 OF 5
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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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NOTE: Date & initial all entries

The parts list in section 25.28 (pg. 93) of ICA-D412-702 Rev. 3 and section 7.0 (pg. 40) of IIN-D412-702 Rev. E is amended as follows:

QTY -041B	QTY -043B	QTY -045B	QTY -047B	QTY -049B	PART NUMBER	DESCRIPTION
X					D412-702-041B	Dart 13-Man 3-Point Shoulder Harness Kit
		X			D412-702-045B	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit

IS:

1		1			D412-702-111B	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-121B	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-3	BRACKET
1*		1*			D3579-047	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-3	DECAL
1		1			D412-702-113B	HARNESS ASSEMBLY (EXISTING)
1		1			D412-702-123B	HARNESS ASSEMBLY (NEW)
1*		1*			D3570-4	BRACKET
1*		1*			D3579-048	SHOULDER HARNESS
4*		4*			MS24694S50	SCREW
4*		4*			AN960JD10L	WASHER
1*		1*			MS21042L3	NUT
1*		1*			D3569-3	DECAL
4		4			AN4-27A	BOLT (ADD)

WAS:

2		2			D412-702-111B	HARNESS ASSEMBLY
2		2			D412-702-113B	HARNESS ASSEMBLY

* DENOTES THAT PART IS INCLUDED WITH ASSEMBLY ABOVE

W/O 64722

CANADA
DEPARTMENT OF TRANSPORT
AIRCRAFT CERTIFICATION
BRANCH
DAO # 01-O-01

APPROVED

BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.01.13
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MFG. APPR.	N/A	DSI 9469	SHEET 2 OF 5
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NOTE: Date & initial all entries

Figures 4.8 (pg. 25) of IIN-D412-702 Rev. E and 25.12 (pg. 69) of ICA-D412-702 Rev. 3 are updated as follows:

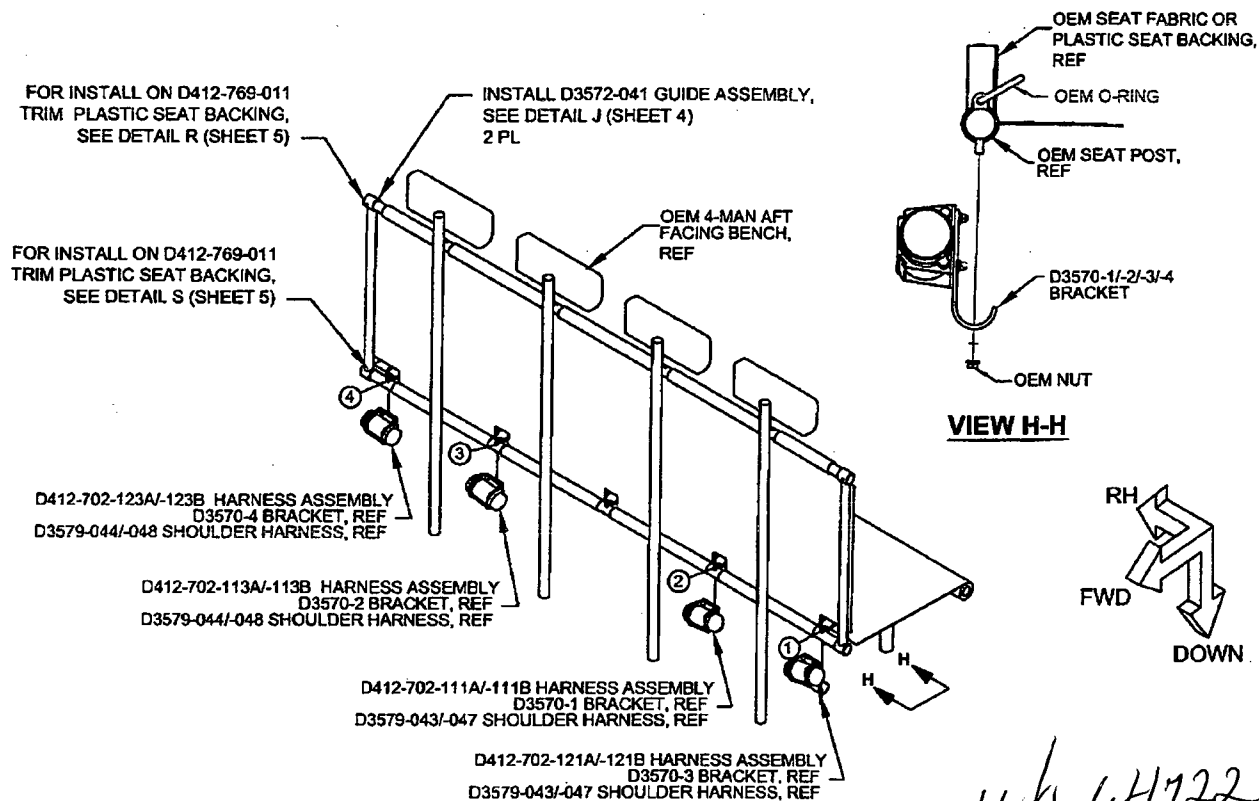


FIGURE 4.8. SHOULDER BELT INSTALLATION
FIGURE 25.12 D412-702-045A/-045B 4-MAN 3-POINT AFT FACING SHOULDER HARNESS KIT

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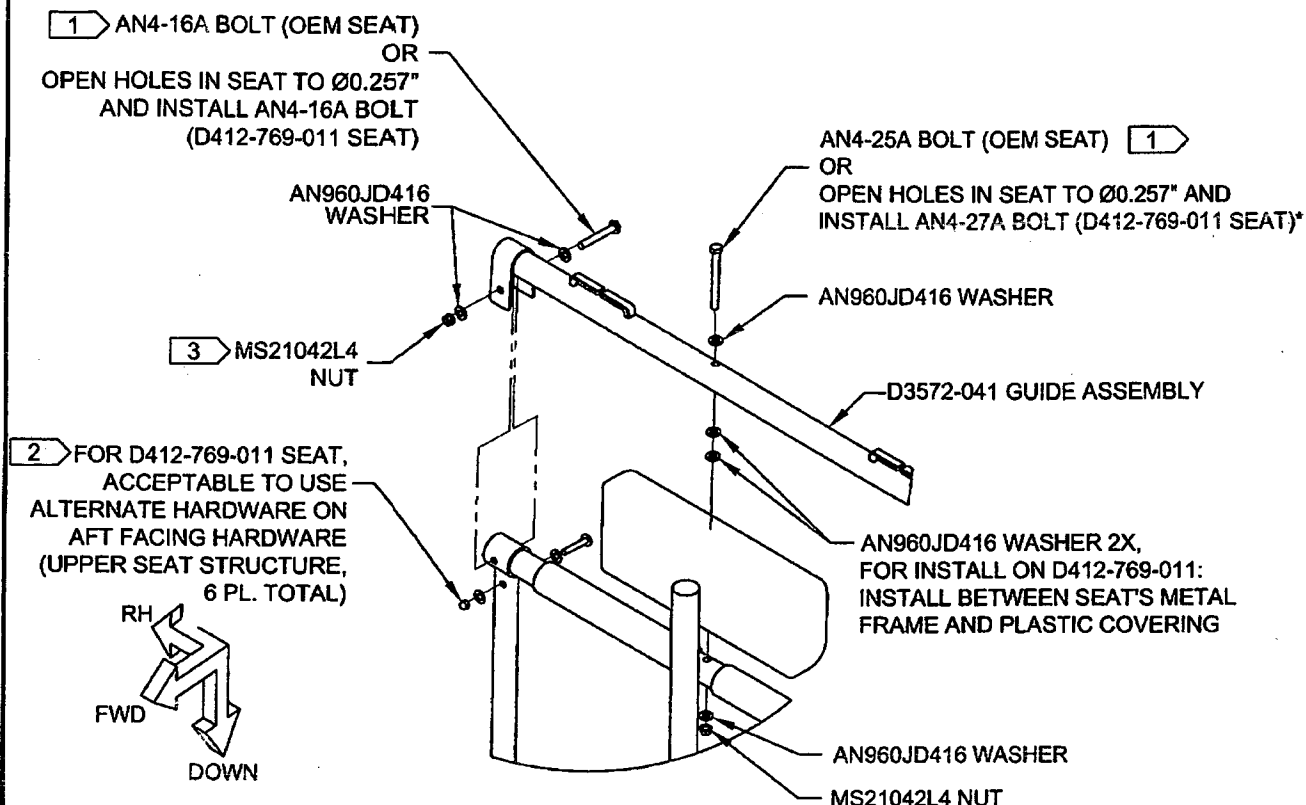
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DETAIL J: D3572-041 INSTALLATION
(RH SHOWN, LH OPPOSITE)

u10 64722

- 1 ACCEPTABLE TO USE LONGER/SHORTER AN4 BOLTS, ADD ADDITIONAL AN960JD416 WASHERS, OR SUBSTITUTE AN960JD416L WASHERS TO ENSURE 1.5-2 THREADS IN SAFETY
- 2 ACCEPTABLE TO USE MS51865-6C AS ALTERNATE NUT (6 PLACES TOTAL PER D412-769-011 SEAT KIT). IF ALT NUT IS USED, ADD AN960JD10/10L WASHER AS REQD (HEAD BOLT SIDE) TO ENSURE PROTRUDING THREADS MEASURE 0.160 MIN, 0.190 MAX. (BEFORE NUT INSTALLATION)
- 3 ACCEPTABLE TO USE MS51865-8C AS ALTERNATE NUT (2 PLACES TOTAL PER D412-769-011 SEAT KIT). IF ALT NUT IS USED, ADD AN960JD416/416L WASHER AS REQD (HEAD BOLT SIDE) TO ENSURE PROTRUDING THREADS MEASURE 0.200 MIN, 0.250 MAX. (BEFORE NUT INSTALLATION)

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DAO # 01-O-01

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D. SHEPHERD (DE # 02)

DATE: 10.01.13
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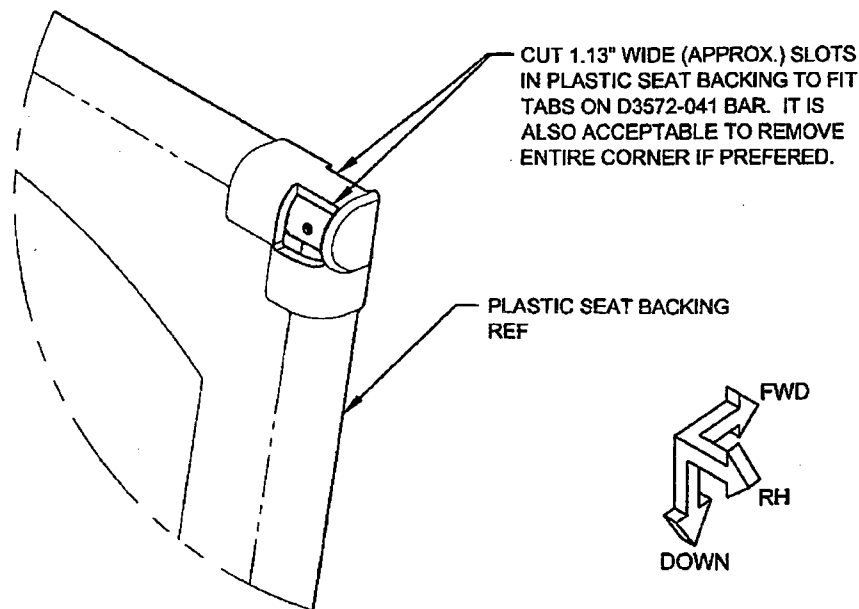
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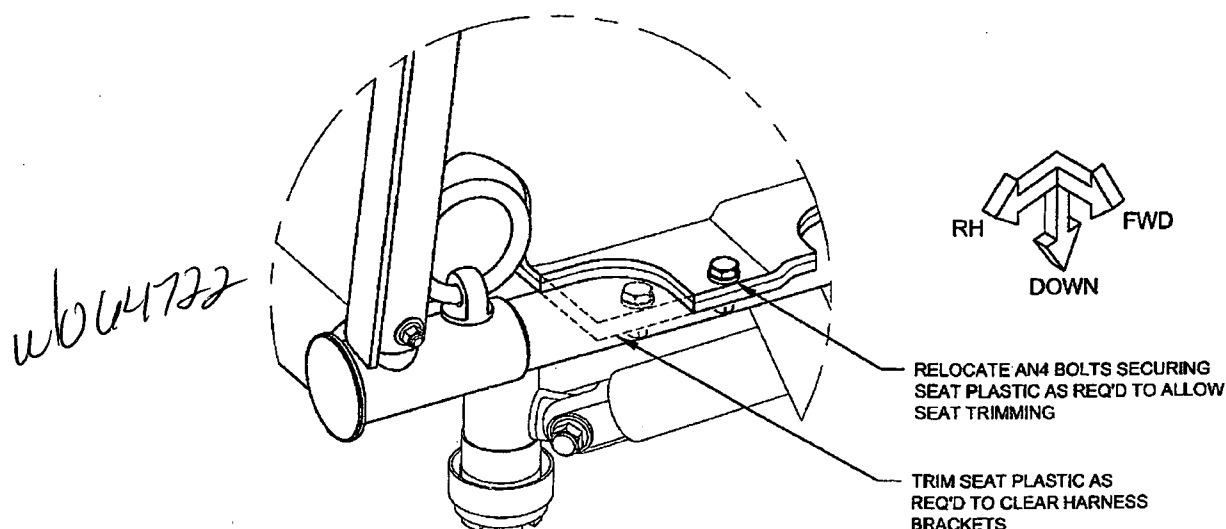
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DETAIL R

VIEW LOOKING AT FRONT OF SEAT BACKING, TOP-RH CORNER SHOWN (TOP-LH CORNER SIMILAR),
FOR INSTALL ON D412-769-011 ONLY



DETAIL S

VIEW LOOKING AT REAR OF SEAT, BOTTOM-RH CORNER SHOWN (BOTTOM-LH CORNER SIMILAR),
FOR INSTALL ON D412-769-011 ONLY

CANADA
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BRANCH
DAO # 01-O-01

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BY: *[Signature]*
D. SHEPHERD (DE # 02)

DATE: 10.01.13
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